

Department of Examinations and Assessment

Louisiana State Licensing Board for Contractors

LSLBC

Ornamental Iron and Structural Steel
Erection, Steel Buildings

Classification Description

Refers to the fabrication, erection, welding, bolting, construction or repair of structural steel, reinforcing steel, ornamental iron, reinforcing rods and wire mesh, metal buildings, metal framing, metal siding, metal roofing, and sheet metal structures. Includes such structures as metal building frames and steel structures for highway bridges, oil drilling rigs, towers, complete storage facilities, grain elevators, silos, warehouses, tanks, floating roofs and metal covers, canopies, etc. Does not include steel piping except the terminal piping connection to tanks. Includes all painting, coating and blasting of such structures.

Ornamental Iron and Structural Steel Erection, Steel Buildings is a **closed book** examination with 50 multiple-choice questions covering the basics of this trade. You will have **two hours** to complete this examination.

Listed below is only a sample of the many good references available on this subject which may be helpful in studying for this examination. This is not a comprehensive listing. Please note that it is not necessary to read all of the books in order to pass the examination. Rather, this list is intended to suggest what types of books might be useful in helping to acquire the basic knowledge needed to perform this type of work.

We try to keep this list current with books in print, but some books go out of print from time to time. These books may be available in your local library's collection or through your local library by using the services of Inter-Library Loan.

If still in print, these books may also be available through your local bookstore or by contacting the publisher.

All references available via the internet are followed by the appropriate website address for obtaining the reference. From time to time, website addresses may change and no longer be available. In such cases, please search for the appropriate new website address or contact the publisher or a library to obtain a copy.

Content Outline

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|--|------------|-----------------------------|------------|
| Specifications, Blueprints, Details | 22% | Safety | 14% |
| Structural Steel Erection | 18% | Welding | 10% |
| Rigging, Hoisting, Cranes | 16% | Properties of Metals | 6% |
| Structural Steel Fabrication | 14% | | |

Hanford Site Hoisting and Rigging Manual, DOE-RL-92-36; U. S. Department of Energy, Hanford Site; Hanford, WA; 2014. <http://www.hanford.gov/page.cfm/HoistingRiggingManual>

Metal Fabrication: A Practical Guide, Third Edition; O'Con, Robert L. and Carr, Richard H.; Fabricators & Manufacturer's Association, International, Rockford, IL.

Modern Welding; Althouse, Andrew D., et. al.; The Goodheart-Willcox Co., Inc.; South Holland, IL.

Welding Technology; Kennedy, Gower A.; Glencoe Publishing Co.; Encino, CA.

A Guide to Scaffold Use in the Construction Industry, Small Business Safety Management Series, OSHA 3150 (Revised); Occupational Safety and Health Administration; Washington, DC; 2002. May be found at <https://www.osha.gov/Publications/OSHA3150.pdf>

Fall Protection in Construction, OSHA 3146-05R 2015; Occupational Safety and Health Administration; Washington, DC; 2015. May be found at <https://www.osha.gov/Publications/OSHA3146.pdf>.